

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002946**Date Inspected:** 01-Nov-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Office, TL3E, Sub-Assemblies (Tower) and C**Bid Item:** 77, 78, 79**Lot No:****Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

TL3E Tower External Surface, NOI Number T1433 (09:30): In accordance with project specifications and SSPC-PA 2, Dry Film Thickness (DFT) readings were recorded by ABF and ZPMC Quality Assurance/Control representatives for TL3E Tower External Surface. Due to low DFT readings, ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding to the next scheduled check point.

Sub -Assemblies (Tower)

Facade Cover Plates External Surfaces (Galvanized), NOI Number T1434 (15:00): In accordance with SSPC-SP 1 and in preparation for undercoat installation, ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on 12 Façade Cover Plates External Surfaces. Minor cleaning was required prior to ABF Quality Assurance personnel instructing ZPMC to proceed with process to the next check point.

Tower Man Hole Cover Plate (Galvanized), NOI Number T1440 (15:10): This inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on part/s in accordance with SSPC-SP 1 in preparation for undercoat installation. No discrepancies noted ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

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## SOURCE INSPECTION REPORT

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Tower External Splices and Tower External Shim Plates, NOI Number 1436 (15:30): In accordance with project specifications and SSPC-PA 2, Dry Film Thickness (DFT) readings were recorded by ABF and ZPMC Quality Assurance/Control representatives for Tower External Splices and Tower External Shim Plates. Minor discrepancies were noted and ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding to the next scheduled check point.

Tower External Support Areas, NOI Number T1437 (1545): In preparation for mist coat installation of Interfane 979 Polysiloxane, the Interzinc 22 undercoat on external surface were tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT) and ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). All test results were acceptable and within desired limits with x2 MEK @ grade 4 and x1 grade 5 and soluble salts recorded readings average of 27.9  $\mu\text{s/cm}$ . No discrepancies noted ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Tower External Splices and Tower External Shim Plates, NOI Number T1438 (16:30): This inspector along with ABF and ZPMC Quality Assurance/Control representatives recorded DTF readings for Tower External Splices and Tower External Shim Plates. No discrepancies noted ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

TRX1M Splice (Galvanized), NOI Number 4785 (18:30): This inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on part/s in accordance with SSPC-SP 1 in preparation for Primer Coat installation. No discrepancies noted ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Office

Attend to report writing and photo documentation.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Cason when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

### Summary of Conversations:

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

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**Inspected By:** Cason,Kenneth

Quality Assurance Inspector

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**Reviewed By:** Miller,Mark

QA Reviewer